

CLAIMS

1. A system of a manually operated foam dispenser and a sun protection emulsion characterized by a content of:
 - 5 (a) polyol poly-12-hydroxystearates
 - (b) oil components
 - (c) other surfactants
 - (d) UV protection factors and
 - (e) water.
- 10 2. A system as claimed in claim 1, characterized in that the sun protection emulsion contains
 - (a) 2 to 10% by weight polyol poly-12-hydroxystearates
 - 15 (b) 1 to 20% by weight oil components
 - (c) 0.5 to 10% by weight other surfactants
 - (d) 0.5 to 20% by weight UV protection factors and
 - (e) 30 to 80% by weight water.
- 20 3. A system as claimed in claim 1 or 2, characterized in that at least one poly(12-hydroxystearic acid)polyglycerol ester is present as the polyol poly-12-hydroxystearate (a).
4. A system as claimed in at least one of claims 1 to 3, characterized in that at least one surfactant selected from the group of anionic surfactants and/or zwitterionic surfactants is present as the surfactant (d).
- 25 5. A system as claimed in at least one of claims 1 to 4, characterized in that the sun protection emulsion contains
 - (a) 2 to 10% by weight poly(12-hydroxystearic acid)polyglycerol ester
 - 30 (b) 1 to 20% by weight oil components containing dialkyl carbonates

- (c) 0.5 to 10% by weight of a mixture of Cocamidopropylbetaine and sulfosuccinates
- (d) 0.5 to 20% by weight sun protection factors and
- (e) 30 to 80% by weight water.

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6. A system as claimed in at least one of claims 1 to 5, characterized in that the sun protection emulsion is a w/o emulsion.

7. A system as claimed in at least one of claims 1 to 6, characterized in that the sun protection emulsion is accommodated together with a blowing
10 gas in a foam dispenser operating on the basis of a blowing gas.

8. A system as claimed in at least one of claims 1 to 7, characterized in that the sun protection emulsion is accommodated in a foam dispenser with a pump mechanism for foaming with air.

9. A system as claimed in claim 8, characterized in that the foam
15 dispenser has an air to liquid mixing ratio of 5:1 to 30:1, preferably 8:1 to 20:1 and, more particularly, ca. 10:1.

10. A system as claimed in claim 8 or 9, characterized in that the foam dispenser has a shot volume of 0.1 to 1 ml, preferably 0.2 to 0.5 ml and, more particularly, ca. 0.4 ml liquid per shot.

20 11. A system as claimed in at least one of claims 8 to 10, characterized in that the foam dispenser has an outlet channel (11) with a foam generator (12) comprising at least one and preferably two flat sieves (13,14) arranged in tandem which are disposed in and substantially transversely of the outlet passage (11).

25 12. A system as claimed in at least one of claims 8 to 11, characterized in that the foam dispenser has at least one air inlet (21) into an air pump chamber (7) and in that the air inlet (21) is protected against the penetration of liquid, especially water, by a removable protective cap (15).

30 13. A system as claimed in at least one of claims 8 to 12, characterized in that the foam dispenser has an air pump chamber (7) and the air pump

chamber (7) has a minimum volume different from zero.

14. A sun protection emulsion, characterized by a content of

- (a) polyol poly-12-hydroxystearates
- 5 (b) oil components
- (c) other surfactants
- (d) UV protection factors and
- (e) water.

10 15. A sun protection emulsion as claimed in claim 14, characterized in that contains

- (a) 2 to 10% by weight polyol poly-12-hydroxystearates
- (b) 1 to 20% by weight oil components
- 15 (c) 0.5 to 10% by weight other surfactants
- (d) 0.5 to 20% by weight UV protection factors and
- (e) 30 to 80% by weight water.

16. A sun protection emulsion as claimed in claim 14 or 15,
20 characterized in that at least one poly(12-hydroxystearic acid)polyglycerol ester is present as the polyol poly-12-hydroxystearate (a).

17. A sun protection emulsion as claimed in at least one of claims 14 to 16, characterized in that at least one surfactant selected from the group of anionic surfactants and/or zwitterionic surfactants is present as the
25 surfactant (d).

18. A sun protection emulsion as claimed in at least one of claims 14 to 17, characterized in that it contains

- (a) 2 to 10% by weight poly(12-hydroxystearic acid)polyglycerol ester
- 30 (b) 1 to 20% by weight oil components containing dialkyl carbonates

- (c) 0.5 to 10% by weight of a mixture of Cocamidopropylbetaine and sulfosuccinates
- (d) 0.5 to 20% by weight sun protection factors and
- (e) 30 to 80% by weight water.

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19. A sun protection emulsion as claimed in at least one of claims 1 to 5, characterized in that it is a w/o emulsion.

20. The use of polyol poly-12-hydroxystearates, more particularly poly(12-hydroxystearic acid)polyglycerol esters, for improving the

10 foamability of emulsions in foam dispensers.